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L1	2	("20030065710").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:04
L4	15	"6782253"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:05
L5	2238	(455/414.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:05
L6	215	(service) with (provider$3 offer$3) with ((location$3) adj3 (id identificat$5 identit$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:06
L7	57	@ad<"20010928" and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:09
L8	1774	(701/207).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:09
L9	4897	(709/217).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:09
L10	2	8 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:10

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L11	1	9 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/09 15:11
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Relevance scale ☐ ☐ ◪ ◪ ■

1 Agents2Go: an infrastructure for location-dependent service discovery in the mobile   ◪
◈ **electronic commerce environment**
Olga Ratsimor, Vladimir Korolev, Anupam Joshi, Timothy Finin
July 2001 **Proceedings of the 1st international workshop on Mobile commerce WMC '01**
Publisher: ACM Press

Full text available: 📄 pdf(577.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

In recent years, the growth of Electronic Commerce and Mobile Computing has created a new concept of Mobile Electronic Commerce. In this paper we describe the Agents2Go System that attempts to solve problems related to location dependence that arise in a Mobile Electronic Commerce environment. Agents2Go is a distributed system that provides mobile users with the ability to obtain location dependent services and information. Our system also automatically obtains a user's current geographical l ...

Keywords: access, agents, context dependent, location dependent, mobile information, service discovery

2 Service composition for mobile environments   ◪
Dipanjan Chakraborty, Anupam Joshi, Tim Finin, Yelena Yesha
August 2005 **Mobile Networks and Applications**, Volume 10 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(2.33 MB)   Additional Information: full citation, abstract, references, index terms

Service Composition, that is, the development of customized services by discovering, integrating and executing existing services has received a lot of attention in the last couple of years with respect to wired-infrastructure or Internet web services. With the advancement in the wireless technology and rapid deployment of mobile devices, we envision that in the near future wirelessly connected mobile devices in a given vicinity will also provide services that can be leveraged in the composition ...

Keywords: DAML, broker, mobility, resource heterogeneity, service composition, service discovery

3 The AROUND architecture for dynamic location-based services   ◪
Rui José, Adriano Moreira, Helena Rodrigues, Nigel Davies
August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4
Publisher: Kluwer Academic Publishers
Additional Information:

Full text available: pdf(194.30 KB)   full citation, abstract, references, citings, index terms

This paper presents a generic concept of location-based service as an abstraction for supporting the association between computational resources and location. The objective is to extend the advantages of service-based architectures to the development of location-based systems, thus providing a more open and extensible alternative to the "vertical" approaches typically used in this type of system. The novel AROUND architecture is proposed as an approach for supporting location-based services in t ...

Keywords: info-mobility, location-based services, mobile computing, service discovery

4   **Reconfigurability and location-based services: A location model for ambient intelligence**
Ichiro Satoh
October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**
Publisher: ACM Press
Full text available: pdf(179.62 KB)   Additional Information: full citation, abstract, references

We present a world model for location-aware and user-aware services in ubiquitous computing environments. It can be dynamically organized like a tree based on geographical containment, such as in that a user-room-floor-building hierarchy and each node in the tree can be constructed as an executable software component. The model is unique to existing approaches because it enables location-aware services to be managed without databases, can be managed by multiple computers, and provides a unified ...

5   **Towards a general purpose user interface for service-oriented context-aware applications**
Torben Weis, Martin Saternus, Mirko Knoll, Alexander Brändle, Marco Combetto
May 2006 **Proceedings of the international workshop in conjunction with AVI 2006 on Context in advanced interfaces CAI '06**
Publisher: ACM Press
Full text available: pdf(69.68 KB)   Additional Information: full citation, abstract, references

Today context-aware applications are isolated systems designed for a special scenario. There is no way to combine different applications, which is common practice with desktop applications since years. For example, the airline knows when your plane leaves, your PDA knows your GPS position, VirtualEarth knows how long you need to the airport, and another service can order a taxi to your current position. When you manage to combine these services, you will get informed when you must go to the airp ...

Keywords: context, human computer interaction, ubiquitous computing

6   **People, places, things: web presence for the real world**
Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(248.58 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group

physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

7 A comprehensive service discovery solution for mobile ad hoc networks

Jerry Tyan, Qusay H. Mahmoud

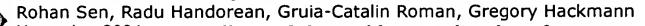August 2005 **Mobile Networks and Applications**, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.03 MB)   Additional Information: full citation, abstract, references, index terms

Service discovery is an integral part of constructing self-configuring Mobile Ad Hoc Networks (MANETs). While several service discovery protocols have been developed, most of them are designed for infrastructure-based networks and thus not suitable to be used in MANETs. Due the volatile nature of MANET, service discovery protocols designed for MANETs often suffer from problems. Firstly, they have limited scalability due to the extensive use of broadcast communication. Secondly, they usually lack ...

Keywords: Hexell, MANETs, routing, service discovery, service interaction, service selection

8 QoS models: Knowledge-driven interactions with services across ad hoc networks

Rohan Sen, Radu Handorean, Gruia-Catalin Roman, Gregory Hackmann

November 2004 **Proceedings of the 2nd international conference on Service oriented computing ICSOC '04**

Publisher: ACM Press

Full text available: pdf(212.17 KB)   Additional Information: full citation, abstract, references, index terms

Service oriented computing, with its aim of unhindered interoperability, is an appropriate paradigm for ad hoc networks, which are characterized by physical mobility of heterogenous hosts and by the absence of standardized application level protocols. The decoupled nature of computing in ad hoc networks can result in disconnections at inopportune times during the client-service interaction process. We introduce the notion of a priori selection of services to reduce the likelihood of disconnec ...

Keywords: ad hoc networks, knowledge management, mobile computing, service-oriented computing

9 Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms approach

John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: pdf(485.90 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes methods for service selection and service access for mobile, sensor-enhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers sent to servers; servers respond with forms that match these capabilities. Clients fill in these forms with sensor data as well as text or file data. The resultant system enables clients to access dynamically discovered services spontaneously, ...

Keywords: MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

10 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: pdf(365.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

11 Challenges: an application model for pervasive computing

Guruduth Banavar, James Beck, Eugene Gluzberg, Jonathan Munson, Jeremy Sussman, Deborra Zukowski

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available: pdf(998.42 KB) Additional Information: full citation, abstract, references, citings, index terms

The way mobile computing devices and applications are developed, deployed and used today does not meet the expectations of the user community and falls far short of the potential for pervasive computing. This paper challenges the mobile computing community by questioning the roles of devices, applications, and a user's environment. A vision of pervasive computing is described, along with attributes of a new application model that supports this vision, and a set of challenges that must be me ...

12 An architecture for a secure service discovery service

Steven E. Czerwinski, Ben Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '99**

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

13 Mobile wireless networks: Consistency challenges of service discovery in mobile ad hoc networks

Christian Frank, Holger Karl

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '04**

Publisher: ACM Press

Full text available: pdf(156.79 KB) Additional Information: full citation, abstract, references, citings, index terms

Emerging "urban" ad hoc networks resulting from a large number of individual WLAN users challenge the way users could explore and interact with their physical surroundings. Robust and efficient service discovery and routing protocols in such networks are a necessary ingredient. Although a lightweight service discovery proposal integrated with ad hoc routing exists, an implementation and performance evaluation with respect to overhead and correctness have so far been missing.Moreover, the differe ...

Keywords: ad hoc networks, service discovery, ubiquitous computing

14 Software aspects: A context-aware middleware platform for autonomous application services in dynamic wireless networks

Nicolas Le Sommer, Frédéric Guidec, Hervé Roussain

May 2006 **Proceedings of the first international conference on Integrated internet ad hoc and sensor networks InterSense '06**

Publisher: ACM Press

Full text available: pdf(165.42 KB)   Additional Information: full citation, abstract, references   ·

Dynamic wireless networks, and especially mobile ad hoc networks, have imposed new constraints regarding the design and the implementation of service-oriented middleware platforms dedicated to mobile computing. Indeed, from now, these platforms must be able to capture the context in which they operate in order to provide the services they host with an abstraction of their running context, and to notify them of the variations occurring in this context. These middleware platforms must also impleme ...

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1 <u>A taxonomy of indoor and outdoor positioning techniques for mobile location services</u> ■

Vasileios Zeimpekis, George M. Giaglis, George Lekakos
December 2002 **ACM SIGecom Exchanges**, Volume 3 Issue 4
Publisher: ACM Press

Full text available: 📄 <u>pdf(188.61 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Wireless positioning determination has received increased attention during the past few years. Several wireless applications have been envisaged when mobile terminal location can be determined with sufficient accuracy at any time. In this paper, we attempt to identify the various indoor and outdoor positioning techniques that can be used for the provision of mobile and wireless applications and services. In order to maximize the benefits of this research in the area of positioning technologies, ...

Keywords: remote positioning, self positioning

2 <u>System demonstrations (b): Spatiotemporal analysis of 9-1-1 call stream data</u> ▬

W. Hodgkiss, C. Baru, T. Fountain, D. Reich, K. Warner, M. Glasscock
May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**
Publisher: Digital Government Research Center

Full text available: 📄 <u>pdf(99.71 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>

Analysis of 9-1-1 call stream data will provide a better understanding of the spatiotemporal patterns of emergency calls, both State-wide and at the local level, and their correlation with external events. Predictive models built with this data can lead to real-time decision support and better overall planning to enable more efficient and effective response to emergencies. While 9-1-1 data is currently being collected across the nation, it is being used primarily for administrative purposes, and ...

Keywords: emergency response, public safety, telephone 911

3 <u>Evaluating distributed functional languages for telecommunications software</u> ▬

J. H. Nyström, P. W. Trinder, D. J. King
August 2003 **Proceedings of the 2003 ACM SIGPLAN workshop on Erlang ERLANG '03**
Publisher: ACM Press

Full text available: 📄 <u>pdf(182.87 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The distributed telecommunications sector not only requires minimal time to market, but also software that is reliable, available, maintainable and scalable. High level

programming languages have the potential to reduce development time and improve maintainability due to their compact code size. Moreover reliability is improved by safe type systems and relatively easy verification. This paper outlines plans and initial results from a joint project between Motorola and Heriot-Watt University that ...

4 Content session 1: multi-modal analysis: Live sports event detection based on broadcast video and web-casting text

Changsheng Xu, Jinjun Wang, Kongwah Wan, Yiqun Li, Lingyu Duan

October 2006 **Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06**

Publisher: ACM Press

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, index terms

Event detection is essential for sports video summarization, indexing and retrieval and extensive research efforts have been devoted to this area. However, the previous approaches are heavily relying on video content itself and require the whole video content for event detection. Due to the semantic gap between low-level features and high-level events, it is difficult to come up with a generic framework to achieve a high accuracy of event detection. In addition, the dynamic structures from diffe ...

Keywords: broadcast video, event detection, web-casting text

5 Supporting personal mobility for nomadic computing over the internet

Yalun Li, Victor C. M. Leung

April 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings

This paper presents a new paradigm for nomadic computing over the Internet called universal personal computing (UPC), where mobile users can access computing resources, network services, and personalized computing environments anywhere using any available terminals. The concept of UPC and system design issues are discussed, and the required system architecture capable of managing different mobile objects, i.e., users and terminals, in the UPC environment is presented. Modifications of connection ...

6 Context and Location: Location-based notification as a general-purpose service

Jonathan P. Munson, Vineet K. Gupta

September 2002 **Proceedings of the 2nd international workshop on Mobile commerce WMC '02**

Publisher: ACM Press

Full text available: pdf(190.40 KB)   Additional Information: full citation, abstract, references, citings, index terms

An often-discussed mobile commerce application is proximity-based coupon delivery. In a typical scenario a merchant is notified when a valued customer is within some distance of a retail outlet, upon which the customer is delivered a coupon or some notice of a special promotion. We believe that this basic mechanism of location-based notification has application far beyond commercial promotion, and is also of interest for tourism, traffic information, public service, and public safety. Furthermor ...

Keywords: Pervasive computing, mobile commerce, wireless notification

7 Software engineering for mobility: a roadmap

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 **Proceedings of the Conference on The Future of Software Engineering ICSE '00**

Publisher: ACM Press

Full text available: pdf(2.07 MB)   Additional Information: full citation, references, citings, index terms

8 Connection closures adding application-defined behaviour to network connections

S. Rooney

April 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: 🔲 pdf(1.01 MB)   Additional Information: full citation, abstract, citings, index terms

New techniques in the implementation of out-of-band control in ATM networks are causing both industry and research laboratories to look again at the whole question of ATM signalling. These techniques devolve the control from the network devices into a higher level distributed processing environment, resulting in simpler network devices and more flexible control architectures.This paper takes this idea one stage further and suggests that at least in some cases, the only place in which control can ...

9 U-commerce & u-business: Requirements elicitation for the design of context-aware applications in a ubiquitous environment

Dan Hong, Dickson K. W. Chiu, Vincent Y. Shen

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: 🔲 pdf(358.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the invention of new interaction devices and the requirements for ubiquitous access to application systems, user's interactions have moved beyond the desktop and evolved into a trend of ongoing development. The context in which the application is being used becomes an integral part of the activity carried out with the system. The inclusion of context-awareness provides convenience and efficiency to users for their ubiquitous access. Traditional human-computer interface (HCI) theories are no ...

Keywords: HCI, context, context-aware application, design issues, tourist system

10 The disappearing computer: Delivering real-world ubiquitous location systems

Gaetano Borriello, Matthew Chalmers, Anthony LaMarca, Paddy Nixon

March 2005 **Communications of the ACM**, Volume 48 Issue 3

Publisher: ACM Press

Full text available: 🔲 pdf(159.21 KB)   Additional Information: full citation, abstract, references, citings, index terms
🔲 html(27.90 KB)

To be widely adopted, location-aware computing must be as effortless, familiar, and rewarding as searching the Web. There are many challenges to this quest, but recent progress has demonstrated accurate location estimation using available wireless networking.

11 Session 3: Wireless MPLS: a new layer 2.5 micro-mobility scheme

Kaouthar Sethom, Hossam Afifi, Guy Pujolle

October 2004 **Proceedings of the second international workshop on Mobility management & wireless access protocols MobiWac '04**

Publisher: ACM Press

Full text available: 🔲 pdf(480.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

In next generation wireless networks, mobile nodes will be equipped with multiple interfaces and will be able to take advantage of overlay networks. In such environment, global IP mobility solutions have to be optimized to handle micro-mobility management, where low-latency handoffs are essential. Signalling overhead, foreign network detection and reconfiguration are not always met in current solutions. In this paper, we propose a new solution to overcome these limitations, namely a layer 2.5 mo ...

Keywords: 802.11, MPLS, bluetooth, handover performance, hiprman, mobility management, wireless networking

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